HP VCX Connect Unified Communications MIM on MSR Series

Data sheet

Product overview

HP VCX Connect unified communications MIM on MSR series delivers an enterprise-class, full-featured VoIP phone system designed to economically meet the rugged, collaborative work environments of small businesses up to 100 phone users. Engineered to seamlessly integrate within HP A-MSR 30 Series WAN routers, the VCX Connect MIM leverages MSR modularity to provide a true office-in-a-box solution by affording organizations a comprehensive suite of integral WAN, LAN, security, and voice interfaces. The VCX Connect MIM's flexible, intuitive design and management help businesses replace legacy PBXs with SIP-based VoIP solutions that provide a full range of collaborative functionality—including click-to-call, presence, instant messaging, and unified voicemail/email messaging. VCX Connect MIM solution bundles, which combine a VCX Connect MIM module, an A-MSR 30 series router, and various media gateway interfaces, are available to reduce expenses and to increase network freedom and flexibility.

Key features

- Economical VoIP bundles with enterprise WAN router
- Built-in phone, messaging, and softphone licenses
- Resiliency with optional redundant server
- Voice, video, IM collaboration
- Support up to 600 users with 6 networked servers

Features and benefits

Quality of Service (QoS)

- **Echo cancellation:** automatically adjusts and removes echo from a telephone call
- **Voice activity detection:** proprietary algorithm designed to reduce/filter background noise
- **Comfort noise generation:** provides low audible artificial background noise to improve VoIP communications
- **802.1p/Q VLAN tagging:** delivers data to devices based on the priority and type of traffic; supports IEEE 802.1Q

Resiliency and high availability

- **Enhanced high availability:** backup VCX systems, whether co-located with the primary VCX or deployed in another office on the same network, provide geographic survivability and rapid failover for mission-critical communications
- **Optional redundant power supply:** provides seamless business continuity and data protection

Configuration

- **Media gateway support:** streamline migration to IP communications and provide PSTN connectivity with a full range of either integrated or standalone VoIP gateways

Integration

- **Converged IP telephony and data:** Seamlessly integrate the VCX Connect MIM (multifunction interface module) into an HP A-MSR 30 Series Power over Ethernet (PoE) or non-PoE router to experience enterprise-class routing and telephony functionality

Investment protection

- **All-in-one solution:** decrease capital and operating expenses and increase network freedom and flexibility by integrating a comprehensive suite of available telephony, routing, switching, and security interfaces and features—all in the same box
- **Analog phone support:** leverage existing investment in analog phones while implementing a full set of PBX features

Ease of use

- **Built-in licensing:** VCX Connect MIM system ships with default licenses—VCX IP Telephony/IP Messaging Server license, 25 business phone licenses, 25 IP messaging seat licenses, 25 Desktop Communicator softphone licenses, 25 Convergence Client softphone licenses, and 4 analog/entry licenses
- **LDAP synchronization with Microsoft® Active Directory, IBM Lotus Domino, Linux OpenLDAP:** easily integrate, filter, and synchronize employee contact information, thereby simplifying administration and ensuring reliable connections based on the most current user information
- **Ease of deployment:** VCX Connect MIM's out-of-the-box first-time configuration provides simpler installations using a Web-based, wizard-like interface that walks you through the installation process
- **Easy to use:** GUI-driven central management and configuration

Scalability

- **Supported devices:** pay as you grow up to 100 devices per platform and up to 600 devices in total via VCX global directory, which enables up to six VCX Connect MIM platforms to function as a single system

Additional information

- **Optional mobility for telecommuters:** optional HP VCX IP Telecommuting Module allows remote users the full benefit of their corporate IP telephony system without compromising security
- **Optional multimedia conference bridge:** when businesses require a dense conferencing system to reduce the overhead and cost of expensive third-party conferencing products, then the HP VCX IP Conferencing Module is the choice; capabilities include host and participant Web-based conference controls, instant and emergency conferences with automatic dial-out options, scheduled and meet-me restricted conferences (requires participant passcode), peer-to-peer and one-to-many conferences, and more
- **Optional network management:** use the HP Intelligent Management Center (IMC) and Voice Services Manager (VSM) to configure, monitor, and optimize the performance of media servers, gateways, and endpoints; to monitor VoIP traffic; and to control voice network quality

Product architecture

- **Multi-site architecture:** highly flexible architecture eliminates the dependency on any single component for unprecented resiliency and end-to-end survivability; use Web-based centralized administration, global directory, and global voicemail to seamlessly link VCX systems together to scale your IP-PBX network as your business grows
- **Standards-based IP-PBX:** support for standard PBX and advanced telephony and messaging features based on the IETF Session Initiation Protocol (SIP) standards; support for third-party SIP-based applications and devices
- **Integrated server:** IP telephony and IP messaging modules run on Linux OS

Technical features

- **Ad hoc conferencing:** VCX Connect MIM supports up to 30 sessions of ad hoc conferencing with a maximum of six parties per conference
- **Shared lines and extension status:** single-line and multi-line phone support and bridged extensions for executives and administrators

User productivity

- **Unified Communications:** increase employee collaboration thru the audio, video, instant messaging, file sharing, and presence capabilities within the HP Desktop Communicator; extend the Microsoft environment with HP Desktop Communicator Outlook Edition add-on to enable click-to-call/conference via Microsoft Outlook, to capture and retrieve call notes with Microsoft Journal, and to perform desktop call recording; HP VCX is fully integrated with Lotus Sametime
- **Unified Messaging:** consolidate users' voicemail, email and faxes into a single inbox for flexible, location-independent retrieval and management; schedule appropriate times when messages are delivered; send voicemails to individuals or groups using extensive and easy-to-maintain distribution lists; set up find me/follow me services to conveniently manage one's own anywhere, anytime access to ensure important calls are never missed; auto-deliver incoming fax calls to email and send fax from email
- **Web user interface:** listen to and manage voicemail messages

Voice functionality

- **Hot desking:** mobile users can effortlessly traverse within the VCX system, log into another handset, and have all their desktop extension settings, including voicemail, at their fingertips
- **Call admission control:** fine-tune and throttle media traffic to prevent VoIP over-subscription—even down to a particular extension
- **Pin codes:** prevent unauthorized outbound dialing and/or manage and record telephony calls via forced account codes and customer account and billing codes; pin code portability allows users to roam the VCX system and utilize their existing data
- **Hunt groups:** built-in call distribution provides agent log-in functionality; support for 3 selectable call routing algorithms
- **Automatic call distribution:** add-on economical call center application that includes 5 selectable routing algorithms, the ability to capture real-time statistics, and support for remote agents in various VCX locations

Warranty and support

- **1-year warranty:** with advance replacement and 30-calendar-day delivery (available in most countries)
- **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- **Software releases:** refer to www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)
- **Media warranty:** removable media on which HP distributes the software is warranted for ninety (90) days from purchase

HP VCX Connect Unified Communications MIM on MSR Series

Specifications

	HP VCX Connect Primary MIM Module (JE252A)	HP VCX Connect Secondary MIM Module (JE253A)	HP MSR 30-16 Router with VCX Connect Primary MIM, 4-port FXO and 2-port FXS Modules (JD025A)
Ports	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full 2 USB 2.0	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full 2 USB 2.0	3 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full 3 USB 2.0 4 RJ-11 FXO ports 2 RJ-11 FXS ports 1 Compact Flash port
Physical characteristics			
Dimensions	8.27(d) x 5.91(w) x 1.57(h) in. (21 x 15 x 4 cm) (1U height)	8.27(d) x 5.91(w) x 1.57(h) in. (21 x 15 x 4 cm)	17.39(d) x 17.4(w) x 1.74(h) in. (44.17 x 44.2 x 4.42 cm) (1U height)
Weight	2.43 lb. (1.1 kg)	2.43 lb. (1.1 kg)	16.25 lb. (7.37 kg) including bundle components
Memory and processor			
Module	Intel® Celeron® @ 600 MHz, 1 GB DDR SODIMM; storage: 160 GB HD	Intel® Celeron® @ 600 MHz, 1 GB DDR SODIMM; storage: 160 GB HD	
Mounting	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot	VCX Connect Secondary module slides into HP A-MSR 30 Series router MIM slot	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)
Environment			
Operating temperature	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)
Operating relative humidity	10% to 80%	10% to 80%	10% to 80%
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Electrical characteristics			
Voltage			100-240 VAC
Frequency			50 / 60 Hz
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS
Notes	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-16 integrated voice gateways options: • Supports up to a maximum of twelve (12) analog voice ports • Supports up to a maximum of eight (8) ISDN voice ports • Supports up to a maximum of four (4) E1 or T1 digital voice spans Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways Bundle includes MSR 30-16 router with VCX Connect Primary MIM, 2-port FXO SIC (qty 2), and 2-port FXS SIC modules
Services	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Specifications (continued)

	HP MSR 30-40 Router with VCX Connect Primary MIM, 8-port FXO and 4-port FXS Modules (JD026A)	**HP MSR 30-40 Router with VCX Connect Primary MIM, 8-port BRI-ST and 4-port FXS Modules (JD027A)**
Ports	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full 4 USB 2.0 8 RJ-11 FXO ports 4 RJ-11 FXS ports 2 RJ-45 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only 2 SFP 1 Compact Flash port	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full 4 USB 2.0 8 RJ-45 ISDN voice ports 4 RJ-11 FXS ports 2 RJ-45 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only 2 SFP 1 Compact Flash port
Physical characteristics		
Dimensions	16.62(d) x 17.4(w) x 3.47(h) in. (42.21 x 44.2 x 8.81 cm) (2U height)	16.62(d) x 17.4(w) x 3.47(h) in. (42.21 x 44.2 x 8.81 cm) (2U height)
Weight	30.29 lb. (13.74 kg) including bundle components	30.34 lb. (13.76 kg) including bundle components
Mounting	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)
Environment		
Operating temperature	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)
Operating relative humidity	10% to 80%	10% to 80%
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Electrical characteristics		
Voltage	100-240 VAC	100-240 VAC
Frequency	50 / 60 Hz	50 / 60 Hz
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS
Notes	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-40 integrated voice gateways options: • Supports up to a maximum of twenty-four (24) analog voice ports • Supports up to a maximum of sixteen (16) ISDN voice ports • Supports up to a maximum of five (5) E1 or T1 digital voice spans Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways Bundle includes MSR 30-40 router with VCX Connect Primary MIM, 4-port FXO MIM (qty 2), and 4-port FXS MIM modules	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-40 integrated voice gateway options: • Supports up to a maximum of twenty-four (24) analog voice ports • Supports up to a maximum of sixteen (16) ISDN voice ports • Supports up to a maximum of five (5) E1 or T1 digital voice spans Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways Bundle includes MSR 30-40 router with VCX Connect MIM Primary, 4-port BRI-ST MIM (qty 2), and 4-port FXS MIM modules
Services	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Specifications (continued)

	HP MSR 30-40 Router with VCX Connect Primary MIM, T1, 4-port FXO and 4-port FXS Modules (JD028A)	**HP MSR 30-40 Router with VCX Connect Primary MIM, E1, 4-port BRI-ST and 4-port FXS Modules (JD029A)**
Ports	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full 4 USB 2.0 1 RJ-45 T1 port 4 RJ-11 FXO ports 4 RJ-11 FXS ports 2 RJ-45 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only 2 SFP 1 Compact Flash port	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full 4 USB 2.0 1 E1 port 4 RJ-45 ISDN voice ports 4 RJ-11 FXS ports 2 RJ-45 auto-sensing 100/1000 ports (IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 100Base-TX: half or full; 1000Base-T: full only 2 SFP 1 Compact Flash port
Physical characteristics		
Dimensions	16.62(d) x 17.4(w) x 3.47(h) in. (42.21 x 44.2 x 8.81 cm) (2U height)	16.62(d) x 17.4(w) x 3.47(h) in. (42.21 x 44.2 x 8.81 cm) (2U height)
Weight	30.23 lb. (13.71 kg) including bundle components	30.23 lb. (13.71 kg) including bundle components
Mounting	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)	VCX Connect Primary module slides into HP A-MSR 30 Series router MIM slot; A-MSR30 router mounts in EIA-standard 19 inch telco rack or equipment cabinet or table top (hardware included)
Environment		
Operating temperature	41°F to 104°F (5°C to 40°C)	41°F to 104°F (5°C to 40°C)
Operating relative humidity	10% to 80%	10% to 80%
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Electrical characteristics		
Voltage	100-240 VAC	100-240 VAC
Frequency	50 / 60 Hz	50 / 60 Hz
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS
Notes	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-40 integrated voice gateway options: • Supports up to a maximum of twenty-four (24) analog voice ports • Supports up to a maximum of sixteen (16) ISDN voice ports • Supports up to a maximum of five (5) E1 or T1 digital voice spans Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways Bundle includes MSR 30-40 router with VCX Connect Primary MIM, 1-port T1 MIM, 24-Channel VPM, 4-port FXO MIM, and 4-port FXS MIM modules	Integrated IP Messaging Voice Ports; up to 30 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported MSR 30-40 integrated voice gateway options: • Supports up to a maximum of twenty-four (24) analog voice ports • Supports up to a maximum of sixteen (16) ISDN voice ports • Supports up to a maximum of five (5) E1 or T1 digital voice spans Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 Series analog, ISDN, and digital gateways Bundle includes MSR 30-40 router with VCX Connect Primary MIM, 1-port E1 MIM, 32-Channel VPM, 4-port BRI-ST MIM, and 4-port FXS MIM modules
Services	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP VCX Connect Unified Communications MIM on MSR Series

Specifications (continued)

Features

SYSTEM
Ad hoc conferencing
Centralized management
Call detail records
Converged application based architecture
Emergency services
End-to-end SIP signaling
Global directory
Global voice mail
IP telephony
IP unified messaging
Linux operating system with additional security
SIP back-to-back user Agent
Standards-based connectivity
System redundancy
Web services SDK

RESILIENCY
Redundancy, IP telephony
Redundancy, IP messaging
Redundancy, IP phones and media gateways
Redundancy, optional RAID
Redundancy, optional power supply

SYSTEM ADMINISTRATION
Add VCX licenses
Administration access control
Administration secure access
Audit trails and logging enhancements
Command Line Interface
Configuration back-up and restore
CPU, memory, I/O statistics
First-time configuration
First-time data import
Importing data
Installed component versions
Multiple administrators
Multiple language support
Online administrator help
Password support, administrator and system access
Provisioning; bulk moves, adds, changes
Remove previous software versions
Resetting a VCX server
Reset to defaults
Root directory access
Searches
Site configuration data
Software upgrades and rollbacks
Switch software versions
System information
User data LDAP synchronization: Lotus Domino running on IBM; Lotus Domino running on Windows® Server 2003, 2008; Microsoft Active Directory on Windows Server 2003, 2008; OpenLDAP on Linux
VCX service licensing
View VCX licensing data
Virtual numbers

QUALITY OF SERVICE
DSCP tagging
Dynamic jitter buffer
G.711 audio codec
G.729ab audio codec
Packet-loss rate
Pay-load length
QoS: 802.1p tagging (Prioritization)
QoS: 802.1Q tagging (VLAN)
Video codec
Video resolution
Wide-band audio codec

SECURITY
Network security policies
Operating system security
Secure access
Security: Locking MAC addresses to switches
User authentication methods

SYSTEM MANAGEMENT
Alarm notification
Audio performance reporting (local)
Auto discovery and management of IP devices
Intelligent Management Center Voice Service Manager: centralized management
Maintenance, graceful shutdown of services
Operating system updates
Quality of service end of call reporting
SNMP MIB access
SNMP traps
SNMP v1, v3
System back-ups

REPORTING
Call detail records (reporting)
Call detail records (structure)

IP TELEPHONY CALLING
Anonymous all
Anonymous next
Anonymous call reject
Automatic call distribution (ACD)
ACD groups (call coverage)
ACD groups (calling groups)
ACD groups (CDR reporting)
ACD groups (circular)
ACD groups (feature interactions)
ACD groups (least-call count)
ACD groups (linear)
ACD groups (login/logout)
ACD groups (malicious call trace)
ACD groups (message-waiting indication)
ACD groups (most idle agent)
ACD groups (multisite)
ACD groups (real-time statistics)
ACD groups (view ACD group status)
Automatic line selection (Multiple system appearance)
Bridged line appearance
Bridge line appearance (MWI)
Bridge line appearance (shared hold)
Busy lamp field
Call conference (drop)
Call conference (six-way calling)
Call conference (three-way calling)
Call coverage
Call drop
Call duration display
Call forward all (universal)
Call forward busy
Call forward no answer
Call forward out-of-coverage
Call forward programmable
Call forward reminder
Call forward remote
Call history (missed/answered/placed logs)
Call history display sort
Call hold
Call hold reminder
Call park/retrieve
Call park (button mapping)
Call park (fallback)
Call pick-up (directed)
Call pick-up (group)
Call restrictions (black list)
Call restrictions (blocking inbound)
Call restrictions (blocking outbound)
Call restrictions (call screening)
Call restrictions (forward to trunk)
Call restrictions (toll screening)
Call restrictions (transfer to trunk)
Call restrictions (white list)
Call return
Call transfer (attended)
Call transfer (fallback on transfer failure)
Call transfer (unattended)
Call transfer (restrictions)
Call waiting
Caller ID (called party)
Caller ID (calling party number)
Caller ID (calling party name)
Caller ID (privacy)
Camp on busy (automatic call back)
Class of service override
Customer account and billing codes
Delayed or no ringing
Directory (local user)
Directory (global user)
Distinctive ringing, ring patterns (different call types)
Distinctive ringing, selective ringing (ident-a-call)
Do not disturb
DTMF dialing
Feature codes
Feature access codes
Forced account codes
Forward to mail
Hands-free support
Hotline (hot ring down circuits)
Hunt groups
Hunt groups (call coverage)
Hunt groups (calling group)
Hunt groups (circular)
Hunt groups (feature interactions)
Hunt groups (linear)
Hunt groups (login/logout)
Hunt groups (malicious call trace)
Hunt groups (message-waiting indication)
Hunt groups (multisite)
Hunt groups (view hunt group status)
Last number redial
Malicious call trace
Message-waiting indication (MWI), audio
Message-waiting indication (MWI), visual
Missed call indicator
Mobility (multisite hot desking)
Mobility (single-region hot desking)
Music on hold
Mute
Paging (analog external paging system)
Paging (group - zone)
Paging (phone-to-phone), send beep with calling number
Paging (SIP external paging system)
Phone lock/unlock
Privacy (block silect monitor/barge-in)
Privacy (calling number suppression)
Serial calling (transfer with callback)
Silent monitor/barge-in
Simultaneous Ringing
Speed dial (personal)
Speed dial (system)
Transfer to voicemail (direct)
Voicemail access
Warmline (warm ring down circuits)

IP TELEPHONY ROUTING
Calendar bands
Call admission control
Call blocking
Daytime bands
Dialing prefixes
Direct Inward Dialing (DID)
Direct Outward Dialing (DOD)
DNIS (Dialed Number Identification Service)
E.164 numbering plan
External directory access
Holidays
NANP support
Network abbreviated dialing
Number translations
Outdial patterns
Patterns
Prioritization of trunks/routes
Private line service
Requestors
Routes
Route (plans and plan wizard)
Routing (alternate)
Routing (blacklist)
Routing (call coverage)
Routing (first available)
Routing (global directory)
Routing (IP to PSTN)
Routing (IP to IP)
Routing (least cost)
Routing (PSTN to IP)
Routing (source based)

HP VCX Connect Unified Communications MIM on MSR Series

Specifications (continued)

Features

Routing (VPN numbering plan)
Routing (white list)
Trusted end points
Weekday bands

IP MESSAGING ARCHITECTURAL
G.711
G.729
Global voicemail central server
Redundancy (intelligent mirroring)

IP MESSAGING
Message annotation
Message append
Message auto-delivery
Message auto playback
Message broadcast
Message delete
Message delete retrieval
Message delivery report
Message delivery to non-subscribers
Message deposit
Message deposit treatment options
Message folders
Message forward
Message notification
Message notification options
Message priority
Message record options
Message reply
Message retrieval
Message review
Message review options
Message review playback controls
Message save
Message schedule delivery
Message send
Message send treatment options
Mailbox login

GREETING
Default system greeting
Personal busy greeting
Personal extended absence greeting
Personal normal greeting
Personal scheduled greetings

DISTRIBUTION LIST
Administrator distribution lists
Personal distribution lists
System distribution lists

DIRECTORY
Directory search
Directory search (dial-by-name)

USER PRODUCTIVITY
Auto attendants
Bulletin board
Call back
Call monitor
Family mailbox
Force password change
Listen and manage voicemail messages from Web user interface
Mailbox alias
Mailbox auto login
Mailbox full alert
Mailboxes for announcements
Mailboxes for forms (Q&A)
Mailboxes for information
Mailboxes for surveys
Mailboxes for system bulletins/broadcasts
Message-waiting indication
Music-on-hold
Outline help
Personal address book
Personal auto-attendant
Privacy
Prompt bypass
Set-up assistant tutorial
Shortcut keys
User password change
User provisioning through TUI
User provisioning through Web
Virtual calling card
Zero out

FIND ME/FOLLOW ME
Find me/follow me
Find me/follow me call intercept

FAX MAIL
Electronic fax sending
Fax auto-delivery to email
Fax auto-delivery to fax machine
Fax delivery to fax machine
Fax message deposit
Fax message retrieval
Never-busy fax

EMAIL INTEGRATION
Client integration
Email auto delivery
Email integration
Email synchronization
Fax attachment in email (.tif or .pdf formats)
Unified inbox for Domino on Windows
Voicemail POP3/IMAP4 client integration

IP MESSAGING ADMINISTRATION
Administration of all parameters through X-terminal interface
Class of service administration
Company/division administration
Export mailbox/COS
Import mailbox/COS
IMAP SSLv3 support
IP messaging Web portal
Mailbox administration
Mailbox on-the-fly
Mailbox un-login
Multiple administration
Multiple language support
Multiple permission levels
Pager templates
Send-user groups
Support for multi-language voicemail
Telephone user interface (native)
Telephone user interface (traditional)
Time zones
Upload audio files via Web interface
VPIM support

IP MESSAGING MANAGEMENT
System alarms
System backup
System restoration
System status

LANGUAGE SUPPORT
Chinese (Mandarin), Dutch, English (Australian, UK and US), French (Canadian and Parisian), German, Italian, Korean, Portuguese (Brazilian), Russian and Spanish (Castilian and LAT)

HP VCX Connect Unified Communications MIM on MSR Series accessories

Cables

HP X260 E1 BNC 75 ohm 3m Router Cable (JD175A)
HP X260 E1 RJ45 3m Router Cable (JD509A)
HP X260 E1 RJ45 BNC 75-120 ohm Conversion Router Cable (JD511A)
HP X260 E1 BNC 20m Router Cable (JD514A)
HP X260 E1 BNC 75 ohm 40m Router Cable (JD516A)
HP X260 E1 RJ45 20m Router Cable (JD517A)
HP X260 T1 Router Cable (JD518A)

Power Supply

HP RPS 800 A Redundant Power Supply (JD183A)

License

HP VCX Business IP Phone License (JE427A)
HP VCX Basic IP Phone License (JE426A)
HP VCX Third Party IP Phone License (JE444A)
HP VCX Business IP Phone License 50 Bundle (JE332A)
HP VCX Basic IP Phone License 50 Bundle (JE329A)
HP VCX Business IP Phone License 250 Bundle (JE331A)
HP VCX Basic IP Phone License 250 Bundle (JE328A)
HP VCX Entry/Analog Phone License (JE425A)
HP VCX IP Messaging Seat License (JE301A)
HP VCX IP Messaging Seat License 50 Bundle (JC515A)
HP VCX IP Messaging Seat License 250 Bundle (JC514A)
HP VCX Desktop Communicator Standalone Soft Phone License (JE435A)
HP VCX Desktop Communicator Outlook Edition Standalone Soft Phone License (JE436A)
HP VCX Desktop Communicator to Outlook Edition Upgrade Soft Phone License (JE437A)
HP VCX Desktop Communicator Soft Phone License 50 Bundle (JE334A)
HP VCX Desktop Communicator Outlook Edition Soft Phone License 50 Bundle (JE336A)
HP VCX Desktop Communicator Soft Phone License 250 Bundle (JE333A)
HP VCX Desktop Communicator Outlook Edition Soft Phone License 250 Bundle (JE335A)
HP VCX Convergence Center Client Standalone License (JE434A)
HP VCX ACD Agent License (JE422A)
HP VCX ACD 5 Agent License (JE424A)
HP VCX ACD 10 Agent License (JE423A)

Routers

HP A-MSR30-16 Multi-Service Router (JF233A)
HP A-MSR30-16 PoE Multi-Service Router (JF234A)
HP A-MSR30-20 Multi-Service Router (JF284A)
HP A-MSR30-20 PoE Multi-Service Router (JF802A)
HP A-MSR30-40 Multi-Service Router (JF229A)
HP A-MSR30-40 PoE Multi-Service Router (JF803A)
HP A-MSR30-60 Multi-Service Router (JF230A)
HP A-MSR30-60 PoE Multi-Service Router (JF804A)

Router Modules

HP 24-Channel Voice Processor A-MSR Module (JD599A)
HP 32-Channel Voice Processor A-MSR Module (JD598A)
HP Voice Co-Processor Module A-MSR Module (JD610A)
HP 1-port FXO SIC A-MSR Module (JD559A)
HP 2-port FXO SIC A-MSR Module (JD558A)
HP 1-port FXS SIC A-MSR Module (JD561A)
HP 2-port FXS SIC A-MSR Module (JD560A)
HP 2FXS+1FXO Voice Interface SIC A-MSR Module (JD632A)
HP 2-port ISDN-S/T Voice Interface SIC Module (JF821A)
HP 1-port E1-Voice SIC A-MSR Module (JD575A)
HP 1-port T1-Voice SIC A-MSR Module (JD576A)
HP 4-port Voice E/M MIM A-MSR Module (JD539A)
HP 2-port FXO MIM A-MSR Module (JD543A)
HP 4-port FXO MIM A-MSR Module (JD542A)
HP 4-port FXS MIM A-MSR Module (JD553A)
HP 16-port FXS Voice Interface MIM Module (JF822A)
HP 4-port ISDN BRI S/T Voice Interface MIM Module (JF837A)
HP 1-Port E1 Voice MIM A-MSR Module (JD565A)
HP 1-port T1 Voice MIM A-MSR Module (JD566A)
HP 2-port E1-Voice MIM A-MSR Module (JD567A)
HP 2-port T1-Voice MIM A-MSR Module (JD568A)

To learn more, visit www.hp.com/networking

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